

7 member with respect to said mouse pad stationary surface, and, wherein,  
 8 said curved member has a peripheral surface in tangential contact with said  
 9 mouse pad stationary surface,  
 10 characterized by,  
 11 an improvement, for positioning control of movement of said mouse input member on  
 12 said mouse pad stationary surface, of an addition of a 20 - 50% increase in weight of  
 13 said mouse input member, whereby said weight addition operates to enhance a drag type  
 14 frictional force component, that resists said movement of said mouse input member on  
 15 said mouse pad stationary surface.

Sub E1  
 Change the dependency of claim 6 from 18 to 20 by erasing in line 1, the cross hatched ~~18~~ and replacing with the underlined 20 as follows:

1 6. The improvement of claim ~~18~~ 20 wherein said 20 - 50 % weight increase is in the  
 2 range of 20 - 50 grams.

The clean copy of amended claim 6 is.

Sub E2  
 1 6. The improvement of claim ~~20~~ wherein said 20 - 50 % weight increase is in the  
 2 range of 20 - 50 grams.

Change the dependency of claim 9 from 4 to 20 by erasing in line 1, the cross hatched ~~4~~ and replacing with the underlined 20 and by erasing the cross hatched ~~addition of a~~ and replacing with the underlined drag type as follows:

1 9. The position control improvement of claim ~~4~~ 20 wherein said ~~addition of a~~  
drag type frictional  
 2 force component is the result of the addition of a combination of a magnetic member

- 3 positioned on the surface of said computer mouse that is adjacent to said computer  
4 mouse pad an a ferromagnetic sheet positioned in said mouse pad.

The clean copy of amended claim 9 is.

- D3  
Sub E
- 1 9. The position control improvement of claim 20 wherein said drag type frictional  
2 force component is the result of the addition of a combination of a magnetic member  
3 positioned on the surface of said computer mouse that is adjacent to said computer  
4 mouse pad an a ferromagnetic sheet positioned in said mouse pad.

Change the dependency of claim 10 from 4 to 20 by erasing in line 1, the cross hatched ~~4~~ and replacing with the underlined 20 and by erasing the cross hatched ~~addition of a~~ and replacing with the underlined drag type as follows:

- 1 10. The improvement of claim ~~4~~ 20 wherein said drag type frictional  
2 force component is the result of the addition of an increase in coefficient of friction  
3 of protrusions on the surface of said computer mouse that are adjacent to said  
4 computer mouse pad at the surface of said computer mouse pad.

The clean copy of amended claim 10 is.

- Sub E  
D4
- 1 10. The improvement of claim ~~4~~ 20 wherein said drag type frictional  
2 force component is the result of the addition of an increase in coefficient of friction  
3 of protrusions on the surface of said computer mouse that are adjacent to said  
4 computer mouse pad at the surface of said computer mouse pad.

Change the dependency of claim 11 from 4 to 20 by erasing in line 1, the cross hatched ~~4~~ and replacing with the underlined 20 and by erasing the cross hatched ~~addition of a~~ and replacing with the underlined drag type as follows.

- 1 11. The improvement of claim ~~14~~ 20 wherein said ~~addition of a~~ drag type frictional  
force  
2 component is a result of at least one addition taken from the group of the addition of  
3 an about 20 - 50 % increase to the weight of said computer mouse, the addition of a  
4 combination of a magnetic member positioned on the surface of said computer  
5 mouse that is adjacent to said computer mouse pad and a ferromagnetic sheet  
6 positioned in said mouse pad, and an addition of an increase in coefficient of friction  
7 between protrusions on the surface of said computer mouse that is adjacent to said  
8 computer mouse pad at the surface of said computer mouse pad.

The clean copy is

- Sub E1  
D5
- 17 ~~11.~~ The improvement of claim ~~20~~ wherein said drag type frictional force  
2 component is a result of at least one addition taken from the group of the addition of  
3 an about 20 - 50 % increase to the weight of said computer mouse, the addition of a  
4 combination of a magnetic member positioned on the surface of said computer  
5 mouse that is adjacent to said computer mouse pad and a ferromagnetic sheet  
6 positioned in said mouse pad, and an addition of an increase in coefficient of friction  
7 between protrusions on the surface of said computer mouse that is adjacent to said  
8 computer mouse pad at the surface of said computer mouse pad.

Rewrite Claim 19, as new claim 21 in which the structural aspects of the interface of the  
invention are set forth in ex Parte Jepson format then cancel claim 18.

Sub E1

1 21. In a computer control interface involving a display and a manually propelled and  
2 guided relative movement of a mouse member on a surface of a mouse pad,  
3 said display having associated signal generating circuitry operable to move a cursor in  
4 said display in response to rotational movement of a sphere supporting member of  
5 said mouse member in contact with said surface of said mouse pad,  
6 said manual propulsion and guidance in said relative movement of said mouse member  
7 on said surface of said mouse pad overcoming a drag type resistance frictional force  
8 component that operates to resist said relative movement of said mouse over said  
9 surface of said mouse pad,  
10 characterized by,  
11 a positioning control enhancing increment, to said drag type resistance frictional force  
12 component that operates to enhance resistance to said relative movement of said  
13 mouse member over said surface of said mouse pad,  
14 said positioning control enhancing increment to said drag type resistance frictional force  
15 being the result of at least one of  
16 the addition of 20 - 50 % of the weight of said mouse member,  
17 the addition of the combination of a magnetic member positioned on the surface of said  
18 mouse member adjacent to said surface of said mouse pad and a ferromagnetic  
19 sheet positioned in said mouse pad, and,  
20 the addition of an increase of protrusions on the surface of said mouse member that  
21 are adjacent to said mouse pad to said drag type movement resistance frictional  
22 force.

De

Change the dependency of claim 14 from 19 to 21, inserting said mouse in turn in line 1 and erasing the second period in line 4 by erasing in line 1, the cross hatched ~~\\19\\~~ and replacing with the underlined 21 and by inserting the underlined of said mouse in turn and in line 4 erasing the cross hatched ~~\\~~ second period as follows.

- 1 14. The improvement of claim ~~19~~ 21 wherein said frictional force component  
of said mouse in turn is the
- 2 result of the addition of an about 29 - 50% in weight increase of said mouse and
- 3 said weight increase of said mouse in turn is produced by about 20 - 50 grams of
- 4 metal particles in the housing of said mouse. ~~\\~~ \\

The clean copy of claim 14 as amended is

- Sub  
E1  
D7
- 1 9 14. The improvement of claim ~~19~~ 21 wherein said frictional force component of said mouse in  
turn is the
  - 2 result of the addition of an about 29 - 50% in weight increase of said mouse and
  - 3 said weight increase of said mouse in turn is produced by about 20 - 50 grams of
  - 4 metal particles in the housing of said mouse.

Change the dependency of claim 15 from 19 to 21, by erasing in line 1, the cross hatched ~~\\19\\~~ and replacing with the underlined 21 as follows.

- 1 15. The improvement of claim ~~19~~ 21 wherein said frictional force component is the
- 2 result of the addition of an about 29 - 50% in the weight of said mouse, and said
- 3 weight increase is produced by affixing to the top of the housing an
- 4 element comprising one or more cloth or plastic covered metal discs totaling about
- 5 20 - 50 grams in weight.

The clean copy is

- Sub E1  
D8
- 1 15. The improvement of claim 21 wherein said frictional force component is the  
2 result of the addition of an about 29 - 50% in the weight of said mouse, and said  
3 weight increase is produced by affixing to the top of the housing an  
4 element comprising one or more cloth or plastic covered metal discs totaling about  
5 20 - 50 grams in weight.

Change the dependency of claim 16 from 19 to 21, by erasing in line 1, the cross hatched ~~19~~ and replacing with the underlined 21 as follows.

- 1 16. The improvement of claim ~~19~~ 21 wherein said frictional force component is the  
2 result of the addition of a combination of a magnetic member positioned on the  
3 surface of said mouse that is adjacent to said mouse pad and a ferromagnetic sheet  
4 positioned in said mouse pad.

The clean copy is

- D9 Sub E1
- 1 16. The improvement of claim ~~21~~ 21 wherein said frictional force component is the  
2 result of the addition of a combination of a magnetic member positioned on the  
3 surface of said mouse that is adjacent to said mouse pad and a ferromagnetic sheet  
4 positioned in said mouse pad.

This response is focused toward following the appreciated suggestions at the top of page 3 of the 1/9/03 office action by rewriting and amendments that specify that the frictional force is of the drag type and that it is the result of the touchable and viewable limitations now in the claims.

Respectfully submitted,

*Alvin J. Riddle*  
Alvin J. Riddle  
Reg. No. 17862  
(914) 472 - 0644

It is hereby certified that this mail confirmation copy of the Formal Response Faxed to Fax  
Number 703 872-9314 is being deposited in First Class Mail addressed to the

Ass't Commissioner for Patents  
U.S. Patent and Trademark Office  
Washington, D.C. 20231

by Alvin J. Riddles

Printed name of person making deposit

*Alvin J. Riddles 3/29/03*  
Signature and date of person making deposit